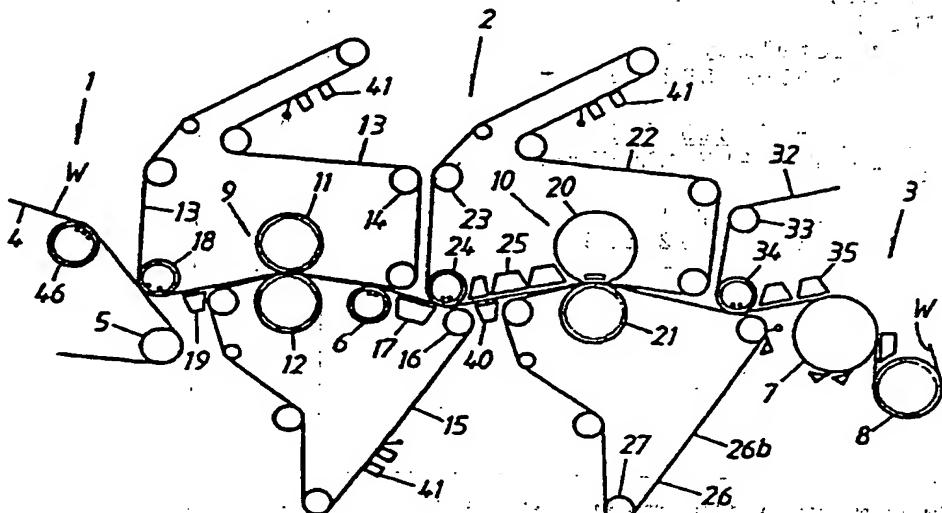


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : D21F 3/00		A1	(11) International Publication Number: WO 00/70142 (43) International Publication Date: 23 November 2000 (23.11.00)
(21) International Application Number: PCT/SE00/00826 (22) International Filing Date: 2 May 2000 (02.05.00)		(81) Designated States: BR, CA, JP, KR, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(30) Priority Data: 9901754-3 14 May 1999 (14.05.99) SE 60/139,634 17 June 1999 (17.06.99) US		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(71) Applicants (for all designated States except US): VALMET KARLSTAD AB [SE/SE] , Box 1014, S-651 45 Karlstad (SE); VALMET CORPORATION [FI/FI]; Fabianinkatu 9 A, FIN-00130 Helsinki (FI). VALMET PAPER, INC.			
(72) Inventor; and (75) Inventor/Applicant (for US only): LAAPOTTI, Jorma, Tapio [FI/FI]; Raponkuja 6, FIN-40270 Palokka (FI).			
(74) Agent: LUNDQUIST, Lars-Olof; L-O Lundquist Patentbyrå AB, Box 80, S-651 03 Karlstad (SE).			

(54) Title: METHOD AND MACHINE FOR MANUFACTURING PRINTING PAPER OR PAPERBOARD



(57) Abstract

For manufacturing printing paper or paperboard with a grammage of 30–200 g/m² in a paper or paperboard machine, comprising a wet section, a press section and a drying section, and in which a formed web (W) is pressed in a roll press with a double-felted roll-press nip and, thereafter, in a shoe press with an extended single or double-felted shoe-press nip, it is suggested, in accordance with the invention that the web is pressed in a deflection-compensating roll press, having said double-felted roll-press nip and open press rolls; that the machine is operated at a web speed of at least 1,200 m/min.; that the web in the roll-press nip is subjected to a linear load ranging from 100 to 300 kN·m and a specific pressure ranging from 5 to 15 MPa; and that the web in the shoe-press nip is subjected to a linear load ranging from 500 to 1,500 kN/m and a specific high pressure ranging from 4 to 13 MPa, to obtain a dewatered web with a dry-solids content of at least 35 per cent after the roll-press nip and at least 45 per cent after the shoe-press nip.